

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/051163

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04R7/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/51201 A (NEW TRANSDUCERS LTD ; BOWN RUSS (GB)) 27 June 2002 (2002-06-27) abstract; figures 1,3,4 page 2, line 17 - page 4, line 24 page 5, line 7 - line 11 page 6, line 28 - page 7, line 6 page 8, line 15 - page 9, line 6 page 10, line 28 - page 12, line 3	1-16
X	WO 02/41287 A (TALKSIGN LTD ; BEADMAN MICHAEL ANDREW (GB); JOHN DAVID ARTHUR VAUGHN ( ) 23 May 2002 (2002-05-23) abstract; figures 1-8 paragraph '0003! - paragraph '0018! ----- -/--	1-16

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

15 December 2004

Date of mailing of the international search report

23/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Timms, O

# INTERNATIONAL SEARCH REPORT

al Application No  
PCT/IB2004/051163

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/068056 A1 (AUBAUER ROLAND ET AL) 10 April 2003 (2003-04-10) abstract; figures 2,3 paragraph '0001! paragraph '0006! - paragraph '0009! paragraph '0011! paragraph '0014! - paragraph '0022! paragraph '0025!	1-16
A	US 5 828 768 A (EATWELL GRAHAM P ET AL) 27 October 1998 (1998-10-27) cited in the application column 4, line 36 - column 7, line 58; figures 1-9,11	1-16
A	US 2002/171636 A1 (JOHNSON MARK THOMAS ET AL) 21 November 2002 (2002-11-21) cited in the application figures 1-9	
A	WO 01/41498 A (NEW TRANSDUCERS LTD ; BUOS ANDREAS (GB)) 7 June 2001 (2001-06-07) abstract; figure 1 page 2, line 16 - page 3, line 15 page 3, line 27 - page 5, line 26	